

WHAT IS CLAIMED IS:

1. An incombustible resin composition, which comprises a silicone oligomer, a metal hydrate and a resin material as essential components, wherein the metal hydrate is 20% by weight or more in the total solids of the resin composition.

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2. The incombustible resin composition according to Claim 1, wherein a resin material is selected from the group consisting of an epoxy resin, a polyimide resin, a triazine resin, a phenol resin, melamine resin and denatured resins denaturing these resins.

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3. The incombustible resin composition according to Claim 1, wherein the metal hydrate has a surface processed with a silicone oligomer.

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4. The incombustible resin composition according to Claim 1, wherein the metal hydrate includes aluminium hydroxide.

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5. The incombustible resin composition according to Claim 4, wherein the aluminium hydroxide has an average particle diameter of 5 μm or less.

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6. The incombustible resin composition according to Claim 1, wherein the metal hydrate includes magnesium hydroxide.

7. The incombustible resin composition according to Claim

1, wherein the metal hydrate includes calcium hydroxide.

8. The incombustible resin composition according to Claim 1, wherein an end of the silicone oligomer has a silanol group 5 capable of reacting with the surface of a metal hydrate.

9. The incombustible resin composition according to Claim 1, wherein degree of polymerization of the silicon oligomer is in the range of 2 to 7000.

10. The incombustible resin composition according to Claim 1, wherein the silicone oligomer has an aromatic group.

11. The incombustible resin composition according to Claim 1, wherein each siloxane unit of the silicone oligomer has at 15 least one aromatic group, respectively.

12. A prepreg manufactured by using the incombustible resin composition according to Claim 1.

20 13. A laminated plate manufactured by using the prepreg according to Claim 12.

14. A metal-clad laminated plate manufactured by using the 25 prepreg according to Claim 12.

15. A printed wiring board prepared by using the laminated

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A
Cn T* plate according to Claim 13, or the metal-clad laminated plate according to 14.

16. A multi-layer printed wiring board prepared by using the
5 prepreg according to Claim 12.

17. A method for preparing an incombustible resin composition, which comprises: blending a metal hydrate with a processing liquid containing silicone oligomer, and then blending other resin components.

18. The method for preparing an incombustible resin composition according to Claim 1, wherein the metal hydrate includes aluminium hydroxide.

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A³*